

Appl. No. 10/668,903
Examiner: DUONG, TAI V, Art Unit 2871
In response to the Office Action dated April 23, 2004

Date: June 28, 2004
Attorney Docket No. 10112931

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

Claim 1 (currently amended): A transfective display device, comprising:

- an upper substrate and a lower substrate;
- a liquid crystal layer interposed between the an inner surface of the upper substrate and the an inner surface of the lower substrate;
- a reflective electrode layer formed overlying the inner surface of the lower substrate to serve as a reflective area of a pixel electrode;
- a transparent electrode layer formed overlying the inner surface of the lower substrate, ~~in which the transparent electrode layer not covered by the reflective electrode layer serves to serve~~ as a transmissive area of a the pixel electrode;
- a first polarizer ~~formed overlying the~~ having a first transmissive axis disposed on an outer surface of the upper substrate; and
- a second polarizer having a second transmissive axis ~~formed overlying the~~ disposed over an outer surface of the lower substrate; and
- ~~an optical compensation plate formed wherein the transfective display device as a whole~~ comprises only one half-wave plate (HWP) disposed between the second polarizer and the lower substrate.

Claim 2 (original): The transfective display device as claimed in claim 1, further comprising a backlight device disposed adjacent to the second polarizer.

Claim 3 (currently amended): The transfective display device as claimed in claim 1, wherein the ~~optical compensation plate is a~~ half-wave plate (HWP) ~~having~~ has a phase retardation of $\lambda/2$.

Claim 4 (currently amended): The transfective display device as claimed in claim 1, wherein the first polarizer ~~has a~~ transmissive axis is perpendicular to ~~a the second transmissive axis of the second polarizer.~~

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Claim 5 (currently amended): The transfective display device as claimed in claim 1, wherein the ~~optical-compensation~~ half-wave plate has a ~~short~~ slow axis disposed at a 45° angle to the second transmissive axis ~~of the second polarizer~~.

Claim 6 (original): The transfective display device as claimed in claim 1, wherein the liquid crystal molecules in the liquid crystal layer have a twisting angle of 0°-50°.

Claim 7 (original): The transfective display device as claimed in claim 1, further comprising a color filter layer formed overlying the inner surface of the upper substrate.

Claim 8 (original): The transfective display device as claimed in claim 1, further comprising a common electrode layer formed overlying the inner surface of the upper substrate.

Claim 9 (new): A transfective display device, comprising:

- an upper substrate and a lower substrate;
- a liquid crystal layer comprising liquid crystal molecules interposed between an inner surface of the upper substrate and an inner surface of the lower substrate, wherein the liquid crystal molecules in the liquid crystal layer have a twisting angle of 0° ~ 50°;
- a reflective electrode layer formed overlying the inner surface of the lower substrate to serve as a reflective area of a pixel electrode;
- a transparent electrode layer formed overlying the inner surface of the lower substrate to serve as a transmissive area of the pixel electrode;
- a first polarizer having a first transmissive axis disposed on an outer surface of the upper substrate;
- a second polarizer having a second transmissive axis perpendicular to the first transmissive axis disposed over an outer surface of the lower substrate; and
- a single optical compensation plate having a phase retardation of $\lambda/2$ disposed between the second polarizer and the lower substrate, wherein said single optical compensation plate has a slow axis disposed at about 45° to the second transmissive axis, and said single optical compensation plate is the only optical compensation plate included in the transfective display device as a whole.

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Claim 10 (new): The transfective display device as claimed in claim 9, further comprising a backlight device disposed adjacent to the second polarizer.

Claim 11 (new): The transfective display device as claimed in claim 9, further comprising a color filter layer formed overlying the inner surface of the upper substrate.

Claim 12 (new): The transfective display device as claimed in claim 9, further comprising a common electrode layer formed overlying the inner surface of the upper substrate.